

Title (en)
METHOD FOR PRODUCING POLYCARBOXYLIC ACID COPOLYMER AND COPOLYMER COMPOSITION FOR CEMENT ADMIXTURE

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES POLYCARBOXYLSÄURE-COPOLYMERS UND COPOLYMERZUSAMMENSETZUNG FÜR EINEN ZEMENTZUSATZ

Title (fr)
PROCÉDÉ POUR LA FABRICATION D'UN COPOLYMÈRE D'ACIDE POLYCARBOXYLIQUE ET COMPOSITION DE COPOLYMÈRE POUR ADJUVANT DE CIMENT

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Abstract (en)
[origin: EP2277932A1] Provided is a production method for a polycarboxylic acid-based copolymer including a structural unit derived from an unsaturated polyalkylene glycol ether-based monomer and a structural unit derived from an unsaturated carboxylic acid-based monomer, by which the production cost of the copolymer is reduced and an unprecedentedly high-performance cement admixture can be provided. Also provided is a copolymer composition for a cement admixture, including a structural unit derived from an unsaturated polyalkylene glycol ether-based monomer and a structural unit derived from an unsaturated carboxylic acid-based monomer, with which an unprecedentedly high-performance cement admixture can be provided. The production method for a polycarboxylic acid-based copolymer of the present invention is a production method for a polycarboxylic acid-based copolymer including a structural unit (I) derived from an unsaturated polyalkylene glycol ether-based monomer (a) and a structural unit (II) derived from an unsaturated carboxylic acid-based monomer (b), in which monomer components including the monomer (a) and the monomer (b) are polymerized using a peroxide and a reductant as polymerization initiators in combination while the pH during polymerization is controlled to 3 or less in the presence of a pH adjuster. The copolymer composition for a cement admixture of the present invention includes a polycarboxylic acid-based copolymer including a structural unit (I) derived from an unsaturated polyalkylene glycol ether-based monomer (a) and a structural unit (II) derived from an unsaturated carboxylic acid-based monomer (b), and a nonpolymerizable organic sulfonic acid having a molecular weight of 300 or less and/or a salt thereof.

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